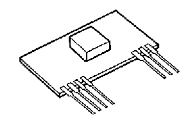
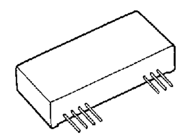
DC-DC Converters

HDC series (1.5W)



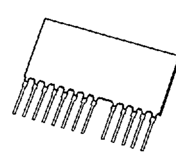
Type No.	Input Voltage [VDC]	Output Voltage [VDC]	Output current [mA]	Ripple and Noise [mVP-P] (max)	Outline Fig.
HDC-0505S	4.5 ~ 5.5	5	300	100	111
-0512D		±12	60	120	
-0515D		±15	50	150	
-1205S	9.6 ~ 14.4	5	300	100	
-1212D		±12	60	120	
-2405S	19.2 ~ 28.8	5	300	100	
-2412D		±12	60	120	

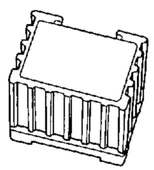
HDF series (3W)

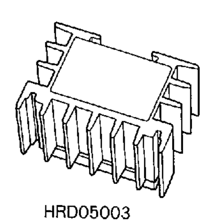


Type No.	Input Voltage [VDC]	Output Voltage [VDC]	Output current [mA]	Ripple and Noise [mVP-P] (max)	Outline Fig.
HDF-0503S	4.0 ~ 7.2	3.3	600	100	112
-0505S		5	600	100	
-0509S		9	330	120	
-0512S		12	260	120	
-0515S		15	210	150	
-0505D		±5	200	100	
-0512D		±12	125	120	
-0515D		±15	100	150	
-1205S	8.0 ~ 16.5	5	600	100	
-1212S		12	260	120	
-1215S		15	210	150	
-1212D		±12	125	120	
-1215D		±15	100	150	
-2405S	16 ~ 32	5	600	100	
-2412S		12	260	120	
-2415S		15	210	150	
-2412D		±12	125	120	
-2415D		±15	100	150	
-4805S	28 ~ 56	5	600	100	
-4812S		12	260	120	
-4815S		15	210	150	
-4812D		±12	125	120	
-4815D		±15	100	150	

HR series


HRD050R6


HRD051R5


HRD05003

Type No.	Input Voltage [VDC]	Output Voltage [VDC]	Output current [A]	Ripple and Noise [mVP-P]	Outline Fig.
HRD050R6	8 ~ 40	※1 5 ※2 (3.3~24)	0 ~ 0.6	25	113
051R5			0 ~ 1.5		114
05003			0 ~ 3		115
12003	17 ~ 40	※1 12 (5~24)			
HRND12R35	8 ~ 32	※1 −12 (−5~−15)	0 ~ 0.35	25	113
120R7			0 ~ 0.7		116

※1 : Output voltage adjustment is available with external potentiometer.
※2 : Input voltage range is limited 8~27V at output voltage less than 4V.
HRD—Series is BULK type, so the difference between input voltage and output voltage is required 3~6V.